STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/559,758_

Source: _IFWP_

Date Processed by STIC: _12/16/05_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

> http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: *10/559,758*

1_____Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3_____Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4_____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5_____Variable Length

Sequence(s)_____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7_____Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8_____Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9_____Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10_____Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11_____Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12_____PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____ Misuse of n/Xaa

"n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

AMC – Biotechnology Systems Branch – 09/09/2003

IFWP

RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:56

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
     5 <110> APPLICANT: Hart, Stephen Lewis
     6         Writer, Michele
     9 <120> TITLE OF INVENTION: PEPTIDE LIGANDS
    12 <130> FILE REFERENCE: ABL-012.1P US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/559,758
    15 <141> CURRENT FILING DATE: 2005-12-06
    18 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/002421
    19 <151> PRIOR FILING DATE: 2004-06-07
    22 <150> PRIOR APPLICATION NUMBER: GB 03 13132.3
    23 <151> PRIOR FILING DATE: 2003-06-06
    26 <160> NUMBER OF SEQ ID NOS: 50
    29 <170> SOFTWARE: PatentIn version 3.1
    33 <210> SEQ ID NO: 1
    35 <211> LENGTH: 5
    37 <212> TYPE: PRT
    39 <213> ORGANISM: Artificial Sequence
    43 <220> FEATURE:
    45 <223> OTHER INFORMATION: Peptide ligand
    47 <220> FEATURE:
    49 <221> NAME/KEY: MISC_FEATURE
    51 <222> LOCATION: (2)..(4)
    53 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue, Xaa at position 3
= a
    54        ny amino acid residue, Xaa at position 4 = any amino acid residue
    58 <400> SEQUENCE: 1
W--> 60 Pro Xaa Xaa Xaa Thr
    61 1               5
    64 <210> SEQ ID NO: 2
    66 <211> LENGTH: 4
    68 <212> TYPE: PRT
    70 <213> ORGANISM: Artificial Sequence
    74 <220> FEATURE:
    76 <223> OTHER INFORMATION: Peptide ligand
W--> 77 <220> FEATURE:
    79 <221> NAME/KEY: MISC_FEATURE
    81 <222> LOCATION: (3)..(3)
    83 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue
    87 <400> SEQUENCE: 2
W--> 89 Pro Ser Xaa Ser
    90 1
    93 <210> SEQ ID NO: 3
    95 <211> LENGTH: 5
    97 <212> TYPE: PRT
    99 <213> ORGANISM: Artificial Sequence
```

(handwritten: jp 1-6)

(handwritten: Does Not Comply Corrected Diskette Needs)

(handwritten: insufficient explanation - what is the source of genetic material ? (see item 11 on Error Summary Sheet))

RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:56

Input Set : A:\ABL-012.1P Sequence listing.txt
Output Set: N:\CRF4\12162005\J559758.raw

```
    103 <220> FEATURE:
    105 <223> OTHER INFORMATION: Peptide ligand
    107 <220> FEATURE:
    109 <221> NAME/KEY: MISC_FEATURE
    111 <222> LOCATION: (2)..(4)
    113 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid, Xaa at position 3 = any
amino
    114       acid having an amide side chain, Xaa at position 4 = any amino a
    115       cid
    119 <400> SEQUENCE: 3
W--> 121 Gln Xaa Xaa Xaa Gln
    122 1               5
    125 <210> SEQ ID NO: 4
    127 <211> LENGTH: 3
    129 <212> TYPE: PRT
    131 <213> ORGANISM: Artificial Sequence
    135 <220> FEATURE:
    137 <223> OTHER INFORMATION: Peptide ligand
    139 <220> FEATURE:
    141 <221> NAME/KEY: MISC_FEATURE
    143 <222> LOCATION: (2)..(2)
    145 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue having an
aliphatic si
    146       de chain
    150 <400> SEQUENCE: 4
W--> 152 Ser Xaa Ser
    153 1
    156 <210> SEQ ID NO: 5
    158 <211> LENGTH: 5
    160 <212> TYPE: PRT
    162 <213> ORGANISM: Artificial Sequence
    166 <220> FEATURE:
    168 <223> OTHER INFORMATION: Peptide ligand
    170 <220> FEATURE:
    172 <221> NAME/KEY: MISC_FEATURE
    174 <222> LOCATION: (2)..(2)
    176 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
    180 <220> FEATURE:
    182 <221> NAME/KEY: MISC_FEATURE
    184 <222> LOCATION: (4)..(4)
    186 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
    190 <400> SEQUENCE: 5
W--> 192 Pro Xaa Leu Xaa Thr
    193 1               5
    196 <210> SEQ ID NO: 6
    198 <211> LENGTH: 5
    200 <212> TYPE: PRT
    202 <213> ORGANISM: Artificial Sequence
    206 <220> FEATURE:
    208 <223> OTHER INFORMATION: Peptide ligand
    210 <400> SEQUENCE: 6
```

```
212 Pro Ala Leu Lys Thr
213 1               5
216 <210> SEQ ID NO: 7
218 <211> LENGTH: 5
220 <212> TYPE: PRT
222 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
228 <223> OTHER INFORMATION: Peptide ligand
230 <220> FEATURE:
232 <221> NAME/KEY: MISC_FEATURE
234 <222> LOCATION: (2)..(2)
236 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
240 <220> FEATURE:
242 <221> NAME/KEY: MISC_FEATURE
244 <222> LOCATION: (4)..(4)
246 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
250 <400> SEQUENCE: 7
```
W--> 252 **Pro Xaa Asn Xaa Thr**
```
253 1               5
256 <210> SEQ ID NO: 8
258 <211> LENGTH: 5
260 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
268 <223> OTHER INFORMATION: Peptide ligand
270 <400> SEQUENCE: 8
272 Pro Ser Asn Ser Thr
273 1               5
276 <210> SEQ ID NO: 9
278 <211> LENGTH: 5
280 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
288 <223> OTHER INFORMATION: Peptide ligand
290 <400> SEQUENCE: 9
292 Pro Pro Asn Thr Thr
293 1               5
296 <210> SEQ ID NO: 10
298 <211> LENGTH: 6
300 <212> TYPE: PRT
302 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
308 <223> OTHER INFORMATION: Peptide ligand
310 <220> FEATURE:
312 <221> NAME/KEY: MISC_FEATURE
314 <222> LOCATION: (2)..(4)
316 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid resdue, Xaa at position 3
= an
317          y amino acid residue, Xaa at position 4 = any amino acid residue
321 <220> FEATURE:
```

```
       323 <221> NAME/KEY: MISC_FEATURE
       325 <222> LOCATION: (6)..(6)
       327 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid resdue
       331 <400> SEQUENCE: 10
W-->   333 Pro Xaa Xaa Xaa Thr Xaa
       334 1               5
       337 <210> SEQ ID NO: 11
       339 <211> LENGTH: 6
       341 <212> TYPE: PRT
       343 <213> ORGANISM: Artificial Sequence
       347 <220> FEATURE:
       349 <223> OTHER INFORMATION: Peptide ligand
       351 <220> FEATURE:
       353 <221> NAME/KEY: MISC_FEATURE
       355 <222> LOCATION: (2)..(2)
       357 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
       361 <220> FEATURE:
       363 <221> NAME/KEY: MISC_FEATURE
       365 <222> LOCATION: (4)..(4)
       367 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
       371 <220> FEATURE:
       373 <221> NAME/KEY: MISC_FEATURE
       375 <222> LOCATION: (6)..(6)
       377 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid residue
       381 <400> SEQUENCE: 11
W-->   383 Pro Xaa Leu Xaa Thr Xaa
       384 1                 5
       387 <210> SEQ ID NO: 12
       389 <211> LENGTH: 6
       391 <212> TYPE: PRT
       393 <213> ORGANISM: Artificial Sequence
       397 <220> FEATURE:
       399 <223> OTHER INFORMATION: Peptide ligand
       401 <220> FEATURE:
       403 <221> NAME/KEY: MISC_FEATURE
       405 <222> LOCATION: (2)..(2)
       407 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
       411 <220> FEATURE:
       413 <221> NAME/KEY: MISC_FEATURE
       415 <222> LOCATION: (4)..(4)
       417 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
       421 <220> FEATURE:
       423 <221> NAME/KEY: MISC_FEATURE
       425 <222> LOCATION: (6)..(6)
       427 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid residue
       431 <400> SEQUENCE: 12
W-->   433 Pro Xaa Asn Xaa Thr Xaa
       434 1                 5
       437 <210> SEQ ID NO: 13
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/559,758

DATE: 12/16/2005
TIME: 15:47:56

Input Set : A:\ABL-012.1P Sequence listing.txt
Output Set: N:\CRF4\12162005\J559758.raw

```
  439 <211> LENGTH: 6
  441 <212> TYPE: PRT
  443 <213> ORGANISM: Artificial Sequence
  447 <220> FEATURE:
  449 <223> OTHER INFORMATION: Peptide ligand
  451 <220> FEATURE:
  453 <221> NAME/KEY: MISC_FEATURE
  455 <222> LOCATION: (1)..(1)
  457 <223> OTHER INFORMATION: Xaa at position 1 = any amino acid residue
  461 <220> FEATURE:
  463 <221> NAME/KEY: MISC_FEATURE
  465 <222> LOCATION: (3)..(5)
  467 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue, Xaa at position
4 = a
  468       ny amino acid residue, Xaa at position 5 = any amino acid residue
  472 <400> SEQUENCE: 13
W--> 474 Xaa Pro Xaa Xaa Xaa Thr
  475 1               5
  478 <210> SEQ ID NO: 14
  480 <211> LENGTH: 7
  482 <212> TYPE: PRT
  484 <213> ORGANISM: Artificial Sequence
  488 <220> FEATURE:
  490 <223> OTHER INFORMATION: Peptide ligand
  492 <220> FEATURE:
  494 <221> NAME/KEY: MISC_FEATURE
  496 <222> LOCATION: (1)..(1)
  498 <223> OTHER INFORMATION: Xaa at position 1 = any amino acid residue
  502 <220> FEATURE:
  504 <221> NAME/KEY: MISC_FEATURE
  506 <222> LOCATION: (3)..(5)
  508 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue, Xaa at position
4 = a
  509       ny amino acid residue, Xaa at position 5 = any amino acid residue
  513 <220> FEATURE:
  515 <221> NAME/KEY: MISC_FEATURE
  517 <222> LOCATION: (7)..(7)
  519 <223> OTHER INFORMATION: Xaa at position 7 = any amino acid residue
  523 <400> SEQUENCE: 14
W--> 525 Xaa Pro Xaa Xaa Xaa Thr Xaa
  526 1               5
  529 <210> SEQ ID NO: 15
  531 <211> LENGTH: 7
  533 <212> TYPE: PRT
  535 <213> ORGANISM: Artificial Sequence
  539 <220> FEATURE:
  541 <223> OTHER INFORMATION: Peptide ligand
  543 <400> SEQUENCE: 15
  545 Ala Pro Ser Asn Ser Thr Ala
  546 1               5
  549 <210> SEQ ID NO: 16
```

Please correct this error in subsequent sequences.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:57

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4
Seq#:2; Xaa Pos. 3
Seq#:3; Xaa Pos. 2,3,4
Seq#:4; Xaa Pos. 2
Seq#:5; Xaa Pos. 2,4
Seq#:7; Xaa Pos. 2,4
Seq#:10; Xaa Pos. 2,3,4,6
Seq#:11; Xaa Pos. 2,4,6
Seq#:12; Xaa Pos. 2,4,6
Seq#:13; Xaa Pos. 1,3,4,5
Seq#:14; Xaa Pos. 1,3,4,5,7
Seq#:20; Xaa Pos. 1,4
Seq#:37; Xaa Pos. 2,3,4,6
Seq#:38; Xaa Pos. 2,4
Seq#:39; Xaa Pos. 2,3,4
Seq#:40; Xaa Pos. 2,4
Seq#:41; Xaa Pos. 1,4
Seq#:42; Xaa Pos. 2,3,4
Seq#:43; Xaa Pos. 2

VERIFICATION SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:57

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:77 M:283 W: Missing Blank Line separator, <220> field identifier
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
```